**Parallel and Perpendicular Lines II**  Name:

Rodriguez/Geometry

**Part 1:**

* Find the slope of graphed line.
* Write the equation of the graphed line.
* Draw a second line that is parallel to the line.



1. Find the equation of a line that has a slope of -2/3 and a y-intercept of 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Find the equation of a line that has a slope of 3 and goes through the point (0, -5). \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Find the equation of a line that goes through the points (-2, 0) and (0, -4). \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Find the equation of a line that goes through the points (-1, 6) and (3, 2). \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Find the equation of a line that is parallel to 2x − 4y = 7 and has a y-intercept of 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Find the equation of a line that is perpendicular to 6*y* − 3x − 2 = 0 and goes through the point (4, -3).

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7. Write the equation of a line that is parallel to 4*x* + 2*y* = -8 and has the same *y*-intercept as the line

3y = -2x – 9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

as

8. Two perpendicular lines intersect at (1, 2). The first line also passes through (5, 10). Find the coordinates of another point on the second line.

9. Line h goes through (2, 4) and (6, -2).

a) Find two points on that line other than those two.

b) Find two points that would be on a line parallel to line h.

**Part 2: Fun Exercises!**